

We claim:-

1. A query generator for generating a query for obtaining selected data from a database, the database having a number of tables in which data is stored, the query generator comprising a processor which is coupled to the database in use, the processor being adapted to:
 - a. receive an input indicating the selected data to be obtained;
 - b. analyse the input and determine whether the input requires a joining of data in different tables, and an aggregation step; and,
 - c. if so, causing the processor to generate a query, the query being adapted to cause the database to:
 - i. aggregate the data within each of the tables as required; and,
 - ii. join the aggregated data, the joined aggregated data representing the selected data.
- 20 2. A query generator according to claim 1, wherein the query causes the database to aggregate the data for each table by causing the database to:
 - i. select the data within the table for aggregation; and,
 - 25 ii. aggregate the data.
3. A query generator according to claim 2, wherein the data is selected by implementing complex folders to generate inline views within the database, the inline views being maintained until the aggregation is completed.
- 30 4. A query generator according to claim 1, wherein the aggregation comprises one of an average, a sum, a standard deviation, and an evaluation of either a maximum or a minimum of the data.
5. A query generator according to claim 1, the query generator further comprises an input device coupled to the processor to allow a user to generate the input.

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6. A query generator according to claim 5, wherein the input is generated by selecting items from a list of possible items, each item representing data contained within a respective database table, and/or an action to be 5 performed on data within the database.

7. Apparatus according to claim 1, wherein the query being generated as an SQL query.

8. Apparatus according to claim 1, wherein the aggregation step requires the aggregation of data in 10 different tables.

9. A database system, the database system comprising:

- a. a database, the database comprising:
 - i. a store for storing data; and,
 - ii. a database processor coupled to the store for obtaining data in accordance with a received query; and,
- b. a query generator for generating a structured query for obtaining selected data from the database, the query generator comprising a 15 processor adapted to:
 - i. receive an input representing the query to be generated;
 - ii. analyse the input and determine whether the input requires a joining of data in different tables, and an aggregation step; and,
 - iii. if so, causing the processor to generate a structured query,

20 wherein the database processor responds to the structured query to:

- (1) aggregate the data within each of the tables as required; and,
- (2) join the aggregated data, the joined aggregated data representing the selected data.

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10. A system according to claim 9, wherein the database processor comprises the processor.

11. A system according to claim 9, wherein the database processor aggregates the data for each table by:

- i. selecting the data within the table for aggregation; and,
- 5 ii. aggregating the data.

12. A system according to claim 11, wherein the database processor selects the data by implementing an inline view to generate complex folders within the database, the complex folders being maintained until the aggregation is

10 completed.

13. A system according to claim 9, wherein the aggregation comprises one of an average, a sum, a standard deviation, a maximum and a minimum evaluation of the data.

14. A system according to claim 9, the query generator

15 further comprising an input device coupled to the processor to allow a user to generate the input.

15. A system according to claim 14, wherein the input is generated by selecting items from a list of possible items, each item representing data contained within a respective database table, and/or an action to be performed on data

20 within the database.